Sustainability Advisory Board

August 24, 2015 Meeting

Agenda Package

Contents:

- 1. Agenda for 8/26/15 Meeting
 - a. Tree Give-Away, Osswald Park, Aug. 1
 - b. ACCO Climate Fundamentals Workshop Sept. 1-2
- 2. Draft Minutes from 7/27/15 Meeting
- 3. 7/27/15 City as Ecology (Huber)
 - a. http://we.tl/xeHFAX3Yw3
- 4. 8/24/15 City Sponsored Food Forest {Whitfield}

Date: August 24, 2015 Place: City Hall, 8th Floor

> 100 N Andrews Ave Fort Lauderdale, FL 33301

6:30 PM - 8:30 PM Time:

6:30 Call to Order

II. 6:45 Approval of Minutes

'July 27, 2015

III. 6:50 Staff Liaison Report (McGinnis)

- · SAP Progress Report (Hadwen)
- · Beach Wrack Pilot Project Update
- Communications History List {Ehle}
- · Update from 8/18/15 City Commission Conference Meeting on SAB Communication to City Commission: Expanded Polystyrene (Styrofoam)
- · Preliminary Results of Environmental and Sustainability Management System Audits

IV. 7:00 Presentations

- · Alternative Fuel Report {Berriz}
- City Sponsored Food Forest {Whitfield}

V. 7:45 Old Business

· Review Past Presentations

VI. 8:00 New Business

VII. 8:05 Proposed Communications

VIII. 8:20 Comments

IX. 8:25 Items for Next Meeting

· Review and Edit Parking Lot Items

X. 8:30 Adjournment

Upcoming Events

- · Tree Give-Away, September 12th, in Osswald
- · Move Broward Active Transportation, October 3rd, in Osswald Park
- · ACCO Climate Fundamentals Workshop -September 1-2

Potential Items/ Presentations for Future Meetings*

- 'Pedestrian Beach Lighting
- 'Follow up on SAB June 22 Presentation on Sustainable Business Programs (Cutrer)

Proposed Presentations from Board Members:

Proposed Presentations on City Initiatives:

- · Adaptation Action Areas (AAA)
- : City Property: One-Stop Shop {Scott}
- · We Are Wild: Certified Community Wildlife Habitat · PACE – Property Assessed Clean Energy
- · Updating Codes for Climate Change Adaptation
- · Comprehensive Plan Evaluation and Appraisal

Sustainability Advisory Board Members

Alena Alberani Jeffrey Huber

Chair

Jim Moyer

Jason Liechty

Vice Chair Chad Scott

Daniel Ayers Mate Thitisawat

Lawrence Clark Enrique Vadiveloo

Lance Cutrer Cheryl Whitfield

The purpose of the Sustainability Advisory Board is to identify and recommend affordable strategies to the City Commission associated with conservation, renewable energy, and energy efficiency to establish the City of Fort Lauderdale as a leader in environmental sustainability. Two or more Fort Lauderdale City Commissioners or members of a City of Fort Lauderdale Advisory Board may be in attendance at this meeting.





OSSWALD PARK

2220 NW 21st Street, Fort Lauderdale, 33311

Saturday, September 12th, 2015 8 a.m. – Noon

- Avocado
- Gumbo Limbo
- Tamarind

- Bulnesia
 Jamaica Caper
- and more!

- Crape Myrtle Lychee
- Dwarf Mango Starfruit (Carambola) Purple Indicates Fruit Trees

With proof of residency (e.g., driver's license, utility bill, etc.), all Fort Lauderdale residents may receive up to two (2) trees per household at no charge.

For more information about the tree giveaway, please email gdempsey@fortlauderdale.gov or call (954) 828-5785.



South Florida Climate Fundamentals Academies

A Regional Series of Training Workshops Supporting the CCO Certification™ Program www.ClimateFundamentals.org/southflorida.html









South Florida Regional Workshop Series

September 1-2, 2015 (Fort Lauderdale Beach Community Center)

3351 NE 33rd Avenue, Fort Lauderdale, FL 33308

The Association of Climate Change Officers (ACCO) is offering a series of 2-day training academies in Fort Lauderdale, Florida to enable attendees to satisfy all course requirements for the **Climate Governance Certificate**, a credential issued through ACCO's **CCO Certification**TM Program. These academies will provide curriculum on topics including understanding climate science and variability, identifying climate hazards and conducting vulnerability assessments, basics of greenhouse gas accounting, explanations of the food-water-energy nexus, and fundamental governance and stakeholder engagement strategies.

Produced and offered in partnership with the **City of Fort Lauderdale, Broward Section of the American Planning Association**, and the **CLEO Institute**, workshop participants will learn from experts about the implications of climate change with a regional focus added for Florida. Professionals from the public and private sectors, higher education and the NGO community will benefit from the classroom-style, interactive training activities.

Workshop Curriculum, Instructors, Registration & Schedule

Workshop #1 Instructors **Registration Fees** Kelly Burks-Copes - Ecologist, U.S. Army Climate-101: Understanding Climate Science & Single Workshop: Engineer Research and Development Center, the Latest Projections \$595 (general) U.S. Army Corps of Engineers Excerpts from Climate-102: Understanding \$395 (government) Nancy Gassman - Assistant Public Works Climate Variability, Extreme Events & Long-Director, Sustainability Division, City of Fort Term Climate Change **Complete Series:** Excerpts from Climate-103: The Basics of Sea \$1,495 (general) David Herring - Director of Communications & Level Rise & Impacts on Coastal Assets & \$995 (government) Education, NOAA Climate Program Office, <u>Infrastructure</u> National Oceanic and Atmospheric ACCO member discounts applicable Climate-201: Identifying Climate Hazards & Administration **Conducting Vulnerability Assessments Subsequent South Florida Workshops** Bryan Jacob - Climate Coach, Climate Coach Excerpts from Climate-202: Leveraging Climate International Workshop #2: January 12-13, 2016 **Data and Tools** Tommy Strowd – Director of Operations & Workshop #3: March 29-30, 2016 GHG-102: The Fundamentals of the Energy, Maintenance, Lake Worth Drainage District Water & Food Nexus Susanne Torriente - Assistant City Manager, **Continuing Education Credits** Case Study: Projecting Climate Change City of Fort Lauderdale 12 AICP CM Credits Applied For Implications for Florida **Special Guest Speaker** Off-Site Tour of a Vulnerable Site Jack Seiler - Mayor, City of Fort Lauderdale

Delivering Value

Skills and Competencies Addressed in this Workshop Series

- Recognizing situations where climate change outcomes affect the organization
- Assessing impacts of specific situational outcomes
- Enabling enterprise management of climate related initiatives
- Assessing and quantifying climate risks and opportunities
- Educating the organization on managing short-term and long-term uncertainty
- Tailoring communication to different audiences
- Leading organizational change initiatives
- Developing and overseeing training programs
- Attributing value to resource consumption
- Extending organizational capabilities and maintaining good stewardship of actions taken through collaboration and partnership
- Developing strategies for bundling, comparing and/or relying on existing management models

Why a Climate Credential Matters

Recognition & Endorsement – Credentials such as the Climate Governance Certificate recognize your capacity to integrate an understanding of climate change and related implications into the day-to-day decision-making required.

Increased Earnings – Recognized credentials will lead to greater earnings as they enable you to stand out amongst peers and competing job applicants, increase your responsibility within the organization and provide greater value to your employer.

Certification Benefits – Capacity to develop and lead climate initiatives is increasingly in demand across sectors. A globally recognized professional credential shows employers that you have the knowledge, skills and training to understand how climate change impacts your organization and support efforts to take meaningful actions.



Climate Fundamentals Academies

A Regional Series of Training Workshops Supporting the CCO Certification[™] Program

www.ClimateFundamentals.org



About the Climate Fundamentals Academies

Climate Fundamentals Academies enable attendees to complete all required training for the Climate Governance Certificate, a credential bestowed through ACCO's CCO Certification™ Program. These training activities will prove valuable to decision makers across sectors and professional roles desiring to be better informed of climate change and sea level rise implications, and to develop strategies for responding to related risks and opportunities. The training, which leverages a cohort learning process and incorporates interactive exercises, will enable participants to play a more active role in integrating sensible climate change strategies into organizational and community planning.

About the 3-Part Series Curriculum: Breaking Down the Workshops

Workshop #1

The first workshop is a primer on climate science, identifying climate hazards, conducting vulnerability assessments. leveraging climate change data and tools and understanding the energy-water-food nexus. This workshop enables decision makers across roles, functions and sectors to develop a better understanding of how the implications of climate change intersect with their decision-making.

Sample Syllabus:

- Climate-101: Understanding Climate Science & the Latest Projections
- Climate-102: Understanding Climate Variability, Extreme Events & Long-Term Climate Change
- Climate-201: Identifying Climate Hazards & Conducting Vulnerability Assessments
- Excerpts from Climate-202: Leveraging **Climate Data and Tools**
- GHG-102: The Fundamentals of the Energy, Water & Food Nexus

Workshop #2

The second workshop moves toward providing participants with a foundation for understanding greenhouse gas emissions and related reporting and disclosure frameworks, strategies for engaging stakeholders and leading organizational change, assessing the legal and policy landscape and examining the economic implications of climate change. Participants will learn about specific initiatives in their localities, states and regions, as well as relevant national and international activity.

Sample Syllabus:

- · GHG-101: Basics of GHG Accounting, Reporting & Disclosing GHG Emissions
- Governance-101: Engaging Stakeholders & **Establishing Strategies for Leading** Organizational Change
- Governance-102: Understanding the Legal/Policy Landscape & Determining the Best Strategy for Your Organization
- Economics-101: The Economics of Climate Change
- Case Study: Southeast Florida Regional Climate Compact

Workshop #3

The third workshop positions participants to leverage previous courses taken and develop strategic application skills in analyzing and quantifying climate related risks, making the case for climate action to c-suite executives and public officials, establishing a framework for an organizational/regional adaptation plan, designing and engaging in multi-stakeholder climate adaptation initiatives and understanding relevant public health implications.

Sample Syllabus:

- Enterprise-201: Analyzing & Quantifying Climate Risk, Assessing Materiality and Disclosing Climate Risk
- Governance-202: Making the Case for Climate Action to the C-Suite and Public Leaders
- Climate-203: Developing an Adaptation Plan for Your Organization
- Climate-204: Engaging in Regional Adaptation Initiatives
- Case Study: The Public Health Implications of Climate
- Group Exercise: Developing a Model Organizational or Regional Climate Initiative

Continuing Education Requirements

Credentialing Body Continuing Education Requirements

ACCO is collaborating with a series of credentialing bodies to ensure that Climate Fundamentals Academies can be applied toward continuing education requirements. Planners, architects, attorneys, facilities managers, civil engineers, energy managers and other credentialed professionals should inquire with ACCO for more information.

Satisfying Employer Continuing Education Requirements

Upon completion of any ACCO training program, ACCO will provide you with formal paperwork confirming and validating your participation. In some instances, ACCO will be working directly with employers and providing that information directly to those institutions.

Step-by-Step Process for Earning the Climate Governance Certificate

- · Enroll in the Climate Governance Certificate
- Register for the complete series of Climate Fundamentals Academies
- · Submit practicum project proposal for feedback along with application fee
- · Complete practicum project and submit for approval
- ACCO issues certificate (includes 1-year individual membership in ACCO)

Financial Planning for the Certificate When Leveraging the Academy

Climate Governance Certificate Enrollment Fee:	\$ 195
Climate Fundamentals Academies Registration Fees	\$ 1,495
Practicum Project & Certificate Application Fee	\$ 795
Total Projected Cost	\$2,485
Projected cost for government employees	\$1,985

Projected cost for government employees

About ACCO's Climate Governance Certificate

The Climate Governance Certificate recognizes the capacity of senior executives and officials across sectors to make informed decisions on climate change related risks to the operations of their organizations and surrounding communities. Established as the standard for demonstrating climate savvy leadership skills, this certificate demonstrates a fundamental understanding of climate science and risk assessment, footprint management and reduction strategies, climate initiative-related project finance and economic analysis, governance and engagement tactics, and enterprise strategy. Learn more about the Climate Governance Certificate at www.ACCOonline.org/certificates.html.

About the CCO Certification TM **Program**

The CCO Certification[™] program issues credentials to participants who have developed a satisfactory capacity to assess the implications of climate change for their organization in the context of their job functions. The first credential under this program, the Climate Governance Certificate, opened for enrollment in March 2015. Subsequent certificates and the CCO Designation[™] will be made available in 2015-2016 and will include credentials for professional roles such as planners and civil engineers, architects, facilities and energy managers, supply chain professionals, investment portfolio managers, public health professionals, risk managers and public policy/administration professionals.

DRAFT

CITY OF FORT LAUDERDALE SUSTAINABILITY ADVISORY BOARD CITY HALL CONFERENCE ROOM 100 NORTH ANDREWS AVENUE – 8th Floor FORT LAUDERDALE, FLORIDA 33301 July 27, 2015 - 6:30 PM

Cumulative Attendance 1/2015 through 12/2015

	1/2015 through 12/2015				
	Members	Appt By	ATTENDANCE	Present	ABSENT
1.	Alena Alberani, Chair	II	A	5	2
2.	Jason Liechty, Vice Chair	IV	Р	7	0
3.	Daniel Ayers	М	Р	5	2
4.	Lawrence Clark	I	Р	5	0
5.	Lance Cutrer	I	Р	5	0
6.	Jeffrey Huber	М	Р	5	1
7.	Jim Moyer		Р	7	0
8.	Chad Scott	II	Р	5	1
9.	Mate Thitisawat	C	Α	4	3
10.	Enrique Vadiveloo	IV	Р	6	1
11.	Cheryl Whitfield	III	Р	6	1

Staff Present

Sustainability Division of Public Works

Adrienne Ehle, Environmental Analyst, Interim Staff Liaison Glen Hadwen, Sustainability Manager Zach McGinnis, Senior Management Fellow Ellison Fellers, Intern

Call of Order/Roll Call

The meeting was called to order by Vice Chair Liechty at 6:30 p.m. The roll was called, and it was determined a quorum was present.

Approval of the Meeting Minutes

The June minutes were introduced. Requested corrections were submitted via email by Chair Alberani. A motion was made to approve the minutes with corrections as amended by Mr. Clarke and seconded by Mr. Cutrer and passed on consensus.

Staff Liaison Report

Ms. Ehle gave a brief overview. Following this meeting, Mr. McGinnis will be interim liaison to the Board. In addition, due to staffing changes in the clerk's office, Jeff Moderelli, the Interim Clerk, and Lynette McIntosh will be contacts for the Board in the Clerk's office. Mr. McGinnis reported that as directed by the City Commission, staff is preparing a memorandum describing the beach wrack pilot project prior to its final approval. Ms. Ehle report that the in person sessions of Climate Change and Sustainability – Science, Seriousness, Solutions training were nearly complete and had trained 1,735 staff to date. Ms. Ehle also reported that a Household Hazardous Waste event is scheduled for Saturday, August 1, at Mills Pond Park and will include tires and clothing collected. In addition, she reported that the Board's communication on Styrofoam is scheduled to be heard during the August 18 Conference meeting. Mr. Hadwen reported that in the July 7 meeting commission requested the input of the SAB on alternative fuel for the fleet. The Commission cited the example of Indianapolis which has committed to eliminating all fossil fuel from its fleet operations.

Presentations

Mr. Jeffrey Huber presented on "The City as Ecology". He stated that 60% of energy is consumed in the built environment. He stated that we are now living in Anthropocene and need to consider how we design for ecological services. He will discuss multiple place building models. Currently, City codes make many design models illegal.

Low impact development

Mr. Huber stated that we need to treat stormwater as an asset rather than a liability. Lawns are the largest agricultural sector in the United States. Areas with more than 10% impervious surfaces show impacts in watersheds. Low impact development slows the spread of water, allowing it to soak on site.

Ms. Whitfield asked if a constructed wetland can become federally regulated. Mr. Huber replied that it has happened in Arkansas.

Mr. Huber discussed a low impact development of a Habitat for humanity neighborhood project built on a 5 acre parcel donated by Walmart. The street section was reduced from \$425/linear ft. to \$250/linear ft. by cutting down the right-of-ways from 30 ft. to 18 ft. During a 50 year storm event, it was the only neighborhood that didn't flood.

Green street & shared streets

Downtown Little Rock, Arkansas had 44 miles of street car in 1910. The Creative Corridor project was intended to aggregate housing and arts on Main Street. The project removed streetlights, added rain gardens, and created shared street with never raised

curbs for pedestrians. It included in ground, low emissive lighting with LED uplights and a demonstration garden.

Transit oriented development

Another example is Fayetteville which had to address how to develop with a growth of 50,000 people expected by 2030. The study proposed transit oriented development where 80% of residents live near a transit center.

Urban Agriculture

Another example is agricultural urbanism where growth is built around an agricultural network. An urban agriculture ordinance was passed in Fayetteville, Arkansas. Other examples could include a boulevard of nut trees or a golf course development supported agriculture.

Ms. Whitfield asked if this was done during the Clinton administration. Mr. Huber said that the Design Center was established in 1995.

Mr. Ayers said that an aerial of downtown asphalt and roof reminds him of the galleria mall roof which could be a green roof supporting the use of rainwater. There is a lot of roof surrounded by parking lot. The Planning process is rigid. We need to start thinking of new creative ideas.

Mr. Moyer said that Broward is the second largest County in Florida and asked how it is different from Arkansas. Mr. Huber replied that it is checked by the beach and everglades and is all built out. Even Miami Dade County has area to expand. Broward has to think about new innovative ways.

Mr. Cutrer asked what would you recommend the board to do. Mr. Huber responded that the Board should address innovative design strategies. The biggest issue is sea level rise, but we won't be able to feed ourselves by then. We should be open to new ways of thinking and what could be possible as well as design and innovative urban design. The biggest difficulty for food systems is that we don't design for agriculture anymore. Mr. Clarke said that bureaucrats are fighting concepts of smart growth.

Mr. Vidavaloo asked if there is specific code that is a roadblock. Mr. Huber suggested thinking about what do we want to see and then reviewing the code. Mr. Clarke said that they have tried to get the speed limit lowered on South Andrews for a long time but traffic engineers don't want to decrease traffic flow.

Old Business

No old business was discussed.

New Business

The Board discussed the Commission request for review of fleet alternative fuels and other topics for future meetings. Mr. Moyer stated that a few years ago a city from California presented on alternative fuels. Ms. Ehle said it may have been for the Sustainability Stewards of Broward. Mr. Cutrer asked if any consultant reviewed this issue for the City. Vice Chair Liechty asked what are the climate benefits for electric vehicles and natural gas vehicles.

Mr. Moyer and Vice Chair Liechty mentioned that the Broward League of Cities and the Clean Cities Coalition have worked on this issue.

Mr. Cutrer asked what the time frame of the request is. Mr. Hadwen replied that Commission did not specify a time frame.

Ms. Fellers mentioned that in Ohio quasar biodigester is used to generate fuel for vehicles.

Mr. Clarke asked if this review should address only environmental issues or also cost effectiveness. Mr. Hadwen responded that the Commission mentioned that any proposal should also be reviewed by the Budget Committee.

Vice Chair Liechty said that the Board should invite the fleet program manager to present at the next meeting. Ms. Whitfield said that water powered cars are in prototype now and a salt water powered car is getting approval in Europe.

Vice Chair Liechty also requested an SAP update for next meeting.

Mr. Moyer said that at some point the Board should talk about turtle lights. In the past they had talked about intensity but he learned that color is more important than intensity. Mr. Clarke said lights can now change the color temperature. Vice Chair Liechty suggested the Board put turtle lighting in the parking lot.

Mr. Moyer requested that future SAB meetings follow up on earlier presentations such as Mr. Cutrer's. Vice Chair Liechty stated that it should be discussed periodically. Mr. Vivedeloo asked for a list of all Board Communications to the Commission to date.

Mr. McGinnis responded that staff would work on that.

Mr. Ayers asked about the urban farming discussion and if there may be opportunities for updates.

Ms. Whitfield requested that she be allowed to make a 15 minute presentation on food forests.

Upcoming Events

Vice Chair Liechty mentioned that Hannah Torres is conducting interviews on sea level rise for residents that lived in Homestead and Fort Lauderdale during Hurricane Wilma for her dissertation. Broward County is hosting the interviews Wednesday at 10 AM and there will be four other sessions during the week.

Ms. Whitfield discussed the Palm Beach Food and Farm Board's Urban Agriculture ordinance. She said that Growing Broward is now working on local food development and distributed copies of Florida Food & Farm magazine.

Mr. Ayers discussed getting educational signage on Las Olas Boulevard regarding mangroves. He has funding but the project is on hold until fall when supporters return.

Mr. Vidaveloo asked if staff could provide a running list of Board Communications.

Mr. Moyer mentioned that the Salvation Army will be participating in a Household Hazardous Waste event this Saturday in partnership with the City of Fort Lauderdale.

Mr. Huber reported that last week the resilient redesign workshop took place and awarded a grant for North Beach Village resilient redesign.

Mr. Clarke said that YEA and Lee Gottlieb were planning a dune restoration project and were looking for volunteers to assist. Mr. Ayers reported that in previous conversations on dunes the City was hesitant. Mr. Hadwen reported that the Climate Reality Project mentioned in the Information Exchange will offer 3-day training in Miami at the end of September.

Proposed Communication

There was no proposed communication discussed this meeting

Items for Next Meeting

The Board agreed to the following item for its August agenda:

- 1. Presentation on fleet fuel options by City staff.
- 2. Presentation on Food Forest by Ms. Whitfield

<u>Adjournment</u>

Mr. Clarke made the motion to adjourn and Mr. Huber seconded. The meeting was adjourned at 8:21 p.m.

Food Forest Proposal Submitted by: Sustainability Advisory Board Member Cheryl Whitfield August 2015

DRAFT Sustainability Advisory Board, August 2015 Food Forest Proposal Item

That the Ft Laud City Commission approve an RFQ that stipulates the following:

- That Food System Planners compose the RFQ to create an economic and environmental selfsustaining project;
- That the RFQ author must be actively engaged in the profession of Food System Planning and production and have achieved substantial experience in the field;
- That the prototype of project be self-sustaining, not dependent upon grant funding for operational support;
- That the White Paper produced be afforded a consultant budget of \$14,000.00 and not subject to the Competitive Negotiation Act;
- The White Paper shall delineate project details, to include, but not limited to:
 - o Data on cost and production
 - o Management and operation
 - o Budget and scope
 - o That a specified % of vegetation shall be edible
 - o Pest and nutrient Management
 - o Installation and Administration of a test Project of limited scope
 - o Compatibility with the City Landscape Ordinance
 - o Discussion of inclusion into public parkland, open space, recreation and tourism